Mustafa Taha Soylemez

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Education

Bogazici University September 2021 – January 2027
Bachelor of Science in Computer Engineering *Istanbul, Turkey*

Experience

Part-time Software Engineer, SRE and Cloud Team October 2025 – March 2026
Upstash *Remote*

- Expanded Go system tests for the Upstash Developer API, covering more API paths and investigating failures found by the tests.
- Fixed backend issues surfaced during testing and updated Developer API documentation when API behavior changed.
- Built a TypeScript CLI/TUI for working with the Developer API from the terminal.
- Created long-running QStash stress tests and a small framework for adding new scenarios and observing behavior over time.

Backend Engineering Intern June 2025 – August 2025
Carla Car Rental *Istanbul, Turkey*

- Implemented partner integrations by mapping external provider APIs to internal API contracts.
- Designed an account-management API to fetch user reservations across partners and normalize reservation status transitions.
- Contributed to a Go test harness for exercising integrations through internal APIs, with a minimal web UI for end-to-end test actions.

Data Science Intern August 2024 – September 2024
Turkish Technology *Istanbul, Turkey*

- Explored airline-domain datasets and engineered features with Pandas and NumPy to profile customer behavior.
- Trained baseline predictive models for use cases such as personalized discounts and flight catering quantity suggestions.

Projects

Article Agent | *Guest Programmer / Blog project, Upstash* August 2025

- Built a TypeScript research agent with Mastra that chats with users, keeps memory, and searches papers on demand.
- Fetched arXiv papers, embedded abstracts, stored them in Upstash Vector, and returned relevant abstracts with PDF links.
- Stack: TypeScript, Next.js, Mastra agents, Upstash Vector. Blog post

AGV Robot SLAM | *Competition project, BUARC* January 2024 – August 2024

- Developed an Automated Guided Vehicle using ROS, Gazebo, RViz, and gmapping for SLAM-based localization and mapping.
- Worked on package structure, TF frames, sensor configuration, parameter tuning, and iterative debugging with team members.

Accomplishments

University Entrance Exam | Ranked 324^{th} among 2M+ participants June 2021

Bogazici University English Proficiency Test | Highest result: “A” May 2022

Technical Skills

Languages/Tools: Go, TypeScript, Kotlin, Java, Python, SQL, Git, Spring Boot, ROS, Gazebo, RViz
AI-assisted development: Claude Code, Codex, parallel coding-agent workflows